

What is claimed is:

1. An ink jet printer, comprising:

a recording head for jetting ink to be cured by being irradiated with an ultraviolet ray from a nozzle to a recording medium; and

an ultraviolet ray irradiating device having a plurality of ultraviolet ray sources, the ultraviolet ray sources irradiating the ink jetted on the recording medium by the recording head with a plurality of ultraviolet rays,

wherein each of the ultraviolet ray sources radially radiates the ultraviolet ray from a center thereof in a radiation direction, and wherein at least two ultraviolet ray sources adjacent to each other among the ultraviolet ray sources arranged adjacent to one another are arranged so as to set distances from the two ultraviolet ray sources to a recording surface of the recording medium to be different from each other.

2. The ink jet printer of claim 1; wherein at least three ultraviolet ray sources among the ultraviolet ray sources are arranged in line so as to have a convexity in a direction going away from the recording surface.

3. The ink jet printer of claim 1; wherein the ultraviolet ray irradiating device further comprises a reflecting member for reflecting the ultraviolet rays

radiated from the ultraviolet ray sources.

4. The ink jet printer of claim 3; wherein the reflecting member is a reflecting plate made of aluminum or a glass-formed plate having a surface on which a thin film of a metallic compound including aluminum is deposited.

5. The ink jet printer of claim 3; wherein at least three ultraviolet ray sources among the ultraviolet ray sources are arranged in line so as to have a convexity in a direction going away from the recording surface approach, and the reflecting member is shaped to be formed along the ultraviolet ray sources.

6. The ink jet printer of claim 1; wherein each ultraviolet ray source is a high pressure mercury lamp, a metal halide lamp, a hot cathode tube or a cold cathode tube.

7. The ink jet printer of claim 1; wherein the ink has a cationic curing property.

8. The ink jet printer of claim 1; wherein a recording type applied to the ink jet printer is a serial type or a line type.

9. An ink jet printer, comprising:

a recording head for jetting ink to be cured by being irradiated with an ultraviolet ray from a nozzle to a recording medium; and

an ultraviolet ray irradiating device having a plurality of ultraviolet ray sources, the ultraviolet ray sources irradiating the ink jetted on the recording medium by the recording head with a plurality of ultraviolet rays,

wherein each of the ultraviolet ray sources is a light emitting diode, and wherein at least two ultraviolet ray sources adjacent to each other among the ultraviolet ray sources arranged adjacent to one another are arranged so as to set distances from the two ultraviolet ray sources to a recording surface of the recording medium to be different from each other.

10. The ink jet printer of claim 9; wherein at least three ultraviolet ray sources among the ultraviolet ray sources are arranged in line so as to have a convexity in a direction going away from the recording surface.

11. The ink jet printer of claim 9; wherein the ink has a cationic curing property.

12. The ink jet printer of claim 9; wherein a recording type applied to the ink jet printer is a serial

type or a line type.

13. An ultraviolet ray irradiating device which is arranged in an ink jet printer for jetting ink to be cured by being irradiated with an ultraviolet ray from a nozzle to a recording medium, the ultraviolet ray irradiating device comprising:

a plurality of ultraviolet ray sources for irradiating the ink jetted on the recording medium with a plurality of ultraviolet rays,

wherein each of the ultraviolet ray sources radially radiates the ultraviolet ray from a center thereof in a radiation direction, and wherein at least two ultraviolet ray sources adjacent to each other among the ultraviolet ray sources arranged adjacent to one another are arranged so as to set distances from the two ultraviolet ray sources to a recording surface of the recording medium to be different from each other.

14. The ultraviolet ray irradiating device of claim 13; wherein at least three ultraviolet ray sources among the ultraviolet ray sources are arranged in line so as to have a convexity in a direction going away from the recording surface.

15. The ultraviolet ray irradiating device of

claim 13, further comprising a reflecting member for reflecting the ultraviolet rays radiated from the ultraviolet ray sources.

16. The ultraviolet ray irradiating device of claim 15; wherein the reflecting member is a reflecting plate made of aluminum or a glass-formed plate having a surface on which a thin film of a metallic compound including aluminum is deposited.

17. The ultraviolet ray irradiating device of claim 15; wherein at least three ultraviolet ray sources among the ultraviolet ray sources are arranged in line so as to have a convexity in a direction going away from the recording surface approach, and the reflecting member is shaped to be formed along the ultraviolet ray sources.

18. The ultraviolet ray irradiating device of claim 13; wherein each ultraviolet ray source is a high pressure mercury lamp, a metal halide lamp, a hot cathode tube or a cold cathode tube.

19. An ultraviolet ray irradiating device which is arranged in an ink jet printer for jetting ink to be cured by being irradiated with an ultraviolet ray from a nozzle to a recording medium, the ultraviolet ray irradiating

device comprising:

a plurality of ultraviolet ray sources for irradiating the ink jetted on the recording medium with a plurality of ultraviolet rays,

wherein each of the ultraviolet ray sources is a light emitting diode, and wherein at least two ultraviolet ray sources adjacent to each other among the ultraviolet ray sources arranged adjacent to one another are arranged so as to set distances from the two ultraviolet ray sources to a recording surface of the recording medium to be different from each other.

20. The ultraviolet ray irradiating device of claim 19; wherein at least three ultraviolet ray sources among the ultraviolet ray sources are arranged in line so as to have a convexity in a direction going away from the recording surface.